

COMMUNICATION DEVICE WITH DIVERSITY ANTENNA

ABSTRACT

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A method and apparatus is disclosed for improving signal reception in a wireless communication device by selectively processing one of two or more signals received over two or more antennas that are configured at least partially orthogonal. In one embodiment, the signal source selection is based on comparison of a signal error rate to a threshold value.

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Error rates in excess of the threshold value may initiate a switching apparatus to selectively enable signal reception from a different antenna to improve the error rate. In one embodiment, amplifiers are located between the switching apparatus and the two or more antennas to thereby reduce noise. In an alternative embodiment control signals selectively enable and disable the amplifiers to control signal reception.